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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.	
09/931,347 08/16/2001		Bangalore Aswatha Nagaraj		13DV14035 2644			
31316	7590	12/09/2003			EXAMINER		
MCNEES, WALLACE & NURICK					MCNEIL, JENNIFER C		
100 PINE S BOX 1166	TREET				ART UNIT	PAPER NUMBER	
HARRISBURG, PA 17108					1775		

DATE MAILED: 12/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Application N .			6012						
Examiner		Applicati n N .	Applicant(s)						
Jennifer C McNeil 1775	Office Action Summany								
The MAILING DATE of this communication appears on the c_ver sheet with the correspondence address — Period for R_pty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions or tiem may be waited under the provision of 32 CFR 1.136(a). In no event, however, may a reply be timely filed after 50k (b) MORTHS from the mealing date of this communication of 32 CFR 1.136(a). In no event, however, may a reply be timely filed after 50k (b) MORTHS from the mealing date of this communication. False to reply separate before the separate date of the separate shall be a separate to the separate shall be sha	Office Action Summary	Examiner	Art Unit						
Period for R ply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. Extracions of time may be available under the provisions of 37 CFR 1.35(a), in no event, however, may a reply be timely filed Extracions of time may be available under the provisions of 37 CFR 1.35(a), in no event, however, may a reply be timely filed If NO period for reply separate does be less than thrift (30) days, and the considered timely. If NO period for reply separate described period for regive, which set the set to be period will apply and will expire SIX (5) MOTHS from the making date of the communication. Failute to the provision of the set of the communication of the communication of the communication of the communication. Failute to the communication is 0.3 CFR 1.704(b). Status 1) M Responsive to communication(s) filed on 29 September 2003. 2a) This action is FiNAL. 2b) This action is reply and the provision of the communication. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.5 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 4.5 and 9-15 is/are allowed. 6) Claim(s) 4.5 and 9-15 is/are allowed. 6) Claim(s) is are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application where the subject to the provision of the drawing(s) be held in abovance. See 37 CFR 1.85(a). Replacement drawing sheel(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 and 120 12) Acknowledg									
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Application/Control Number: 09/931,347

Art Unit: 1775

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, and 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Schaeffer (US 6,066,405). Schaeffer teaches a nickel-based superalloy substrate including a coating region (34, 36) comprising a single-phase composition of aluminum, platinum, nickel, and the diffused components of the substrate. A diffusion zone is immediately adjacent to the substrate and the platinum-aluminum region.

Regarding claim 2, the substrate is a nickel-based superalloy.

Regarding claim 3, the substrate may be a turbine engine component.

Regarding claims 6 and 7, the content of the platinum may be 18-45 wt% and the content of the aluminum may be 18-24 wt%.

Regarding claim 8, a ceramic layer may be provided over the coating.

Claim Rejections - 35 USC \$ 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaeffer (US 6,066,405). Schaeffer teaches a coating for a turbine component as discussed above, but does not give specific values of the platinum and aluminum content within applicant's range. It would have been obvious to one of ordinary skill in the art at the time of the invention to have selected the overlapping portion of the ranges disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness (*In re Malagari*, 182 USPQ 549).

Allowable Subject Matter

Claims 4, 5, and 9-15 are allowed.

Response to Arguments

Applicant's arguments filed September 29, 2003 have been fully considered but they are not persuasive. Applicant has amended the claims to reflect that hafnium is added to the outer layer, and the outer layer has a specific amount of hafnium at no more than about 2 wt%. Applicant argues that Schaeffer does not teach the presence of added hafnium in the outer layer. The substrate of Schaeffer includes hafnium at 0.15 wt%. Because the coating of Schaeffer includes a remainder of the bulk composition of the substrate alloy, it is fully expected that the coating would include the hafnium of the substrate. And because the substrate includes an amount of less than 2 wt% hafnium, the range is commensurate with that of the claims. The term "added" is not considered to structurally limit the article over that of the prior art.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer C McNeil whose telephone number is 703-305-0553. The examiner can normally be reached on 9AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on 703-308-3822. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

JCM